

AMENDMENTS TO THE CLAIMS

1. (Original) An access network apparatus in a high data rate mobile communication system, comprising:

a measuring part for measuring reception power of a reverse DRC (Data Rate Control) channel;

a controller for determining a slotting rate of the reverse DRC channel by comparing the measured reception power of the reverse DRC channel with a plurality of predetermined threshold values; and

a channel transmitter for transmitting a signaling message including information indicating the determined slotting rate to an access terminal.

2. (Original) The access network apparatus as claimed in claim 1, wherein the signaling message further includes information on a slot where transmitting the reverse DRC channel is started, and information on whether an offset is applied to a pilot channel.

3. (Original) The access network apparatus as claimed in claim 1, wherein the reception power of the reverse DRC channel is defined as an average signal-to-noise ratio determined by measuring a signal-to-noise ratio of each reverse DRC channel received from every user and then dividing the measured signal-to-noise ratios by a number of the users.

4. (Original) The access network apparatus as claimed in claim 1, wherein the reception power of the reverse DRC channel is defined as a least value of a plurality signal-to-noise ratios measured for reverse DRC channels received from every user.

5. (Original) The access network apparatus as claimed in claim 1, wherein the signaling message further includes MAC ID (Medium Access Control Identification).

6. (Original) The access network apparatus as claimed in claim 5, wherein the access terminal determines a slot where transmitting the reverse DRC channel is started, and whether an

offset is applied to a pilot channel, using the slotting rate and MAC ID included in the signaling message.

7 – 14. (Cancelled)

15. (Original) An access network apparatus in a high data rate mobile communication system, comprising:

a measuring part for measuring reception power of a reverse DRC channel;

a controller for determining a repetition frequency (DRCLength) of said reverse DRC channel by comparing the measured reception power of the DRC channel with a plurality of predetermined threshold values, and adjusting transmission power of the reverse DRC channel below transmission power of a reverse pilot channel; and

a channel transmitter for transmitting a signaling message including information indicating the repetition frequency and information indicating the transmission power of the reverse DRC channel.

16. (Currently Amended) The access network apparatus as claimed in claim ~~14~~15, wherein the signaling message further comprises information indicating whether the reverse DRC channel is slotted.

17. (Currently Amended) An access network apparatus as claimed in claim ~~14~~15, wherein a transmission power of the DRC channel is determined by multiplying a transmission power of the pilot channel by a reciprocal of the DRC channel repetition frequency.

18 – 19. (Cancelled)

20. (Original) A method for transmitting DRC information selected by an access terminal to an access network in a mobile communication system in which the access terminal transmits to the access network DRC information indicating a selected one of forward data rates requested by the access terminal, and the access network specifies DRC information length indicating a

number of slots where the DRC information is repeated and transmits the DRC information length to the access terminal, wherein the access terminal gates transmission of the DRC information to the access network at one time slot in every DRC information length.

21. (Original) A data transmission method for an access network in a mobile communication system in which an access terminal transmits to the access network, during call setup, DRC information length indicating a frequency of repeating DRC information designating one of several requested forward data rates at a plurality of time slots, and the access network receives the designated DRC information at the determined one time slot according to the DRC information length, wherein upon receipt of the designated DRC information at the time slot, the access network transmits transmission data to the access terminal during the designated data rate at the time slots corresponding to the DRC information length(DRC_length).

22 – 35. (Cancelled)

36. (Original) A communication method in a mobile communication system in which an access terminal transmits to an access network DRC information indicating a selected one of forward data rates requested by the access terminal, comprising the steps of:

designating a DRC information length DRCLength indicating a number of slots where the DRC information is repeated and transmitting the designated DRC information length from the access network to the access terminal; and

gating transmission of DRC information to the access terminal at one time slot in every DRC information length received from the access network.

37. (Cancelled)

38. (Original) A method for determining a access network mode in a mobile communication system in which a continuous mode which continuously transmits data rate control information indicating one of a plurality of forward data transmission rates at every slot and a gated mode which is gated and transmitted to one of a predetermined slot are supported,

comprising:

switching from the continuous mode to the slotted mode if a receipt strength of a reverse data rate control channel is lower than a first reference value;

switching from the slotted mode to the continuous mode if the receipt strength of the reverse data rate control channel is higher than a second reference value; and

transmitting a signaling message including information designating the switched slotted or continuous mode to the access terminal.

39. (Original) A method for determining an access network mode as claimed in claim 38, wherein the first reference value differs from the second reference value.

40. (Cancelled)

41. (Original) A method for determining a forward data rate of an access network in a mobile communication system in which users are grouped into a plurality of user groups, each user group transmits a DRC information at a time slot in slot period having a predetermined length and the access network receives the DRC information, wherein the access network gathers the most recently received DRC information as to each user group and determines the forward data rate in a certain time in the slot period.

42. (Original) A method for transmitting a receipt strength(C/I) information selected by an access terminal to an access network in a mobile communication system in which the access terminal measures a receipt strength of a forward pilot signal of the access network and transmits the receipt strength of the forward pilot signal to the access network, and the access network specifies C/I information length indicating a number of slots where the C/I information is repeated and transmits the C/I information length to the access terminal, wherein the access terminal gates transmission of the DRC information to the access network at one time slot in every DRC information length.